

Title (en)

GRAIN-ORIENTED ELECTROMAGNETIC STEEL SHEET AND METHOD FOR ITS PRODUCTION

Publication

EP 0008385 B1 19840516 (EN)

Application

EP 79102672 A 19790726

Priority

JP 9121778 A 19780726

Abstract (en)

[origin: US4293350A] In a method of producing a grain-oriented electromagnetic steel sheet, a laser beam is irradiated onto the steel sheet, which has been subjected to a final high temperature annealing in order to approximate the crystal orientation of the sheet in a (110), [001] orientation. Because of the laser beam irradiation, regions of high dislocation density are locally formed in the steel sheet and subdivide the magnetic domains, with the result that a low watt loss is achieved.

IPC 1-7

C21D 8/12; **C21D 10/00**; **H01F 1/16**

IPC 8 full level

H01F 1/16 (2006.01); **C21D 8/12** (2006.01); **C21D 9/46** (2006.01); **C21D 10/00** (2006.01); **H01F 1/147** (2006.01)

CPC (source: EP US)

C21D 8/1294 (2013.01 - EP US); **C21D 9/46** (2013.01 - EP US); **C21D 10/00** (2013.01 - EP US); **H01F 1/14775** (2013.01 - EP US)

Cited by

DE102011000712A1; DE102015114358A1; EP0423623A1; JPS5935893A; DE3539731A1; EP0220940A3; US4772338A; GB2128639A; FR2535105A1; EP0260927A3; US4909864A; DE3226640A1; DE10130308B4; DE102015114358B4; EP0137747A3; EP0108575A3; US4545828A; CZ298905B6; CN101831538A; US4655854A; US4952253A; JPS5992191A; DE3711905A1; EP0143548A1; EP0087587A1; EP0033878A3; EP0606884A1; US5833768A; EP0108573A3; US4554029A; WO2012110111A1; US6666929B1; EP4273280A1; WO0073517A1; EP0438592B1; EP0100638B1

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